

Abstract of the Disclosure

DIFFERENTIAL CAPACITIVE TORQUE SENSOR

A differential capacitive torque sensor for a continuously rotating shaft such as the
5 steering column of an automobile provides an apertured metal cage shielding a dielectric rotor. They are respectively mounted on opposite sides of a split shaft connected by a torsion bar. The relative rotation of the apertured conductive plates and the rotor change the overall differential capacitance of the system to proportionally indicate clockwise or counter-clockwise torque.

100 90 80 70 60 50 40 30 20 10 0